

1. Electron source

Applicants


Terui, Yoshinori / Nonogaki, Ryoza (Denki Kagaku Kogyo Kabushiki Kaisha),
 UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Apr 2006
 patno:US20060076866

...measuring total **emission** current [0043] 16: Emitted **electron** beam (BEST
 MODE...invention is an **electron** source (BaO/W...consisting of BaAl₂O₄, **BaAl₁₂O₁₉**,
 Ba₃Sc₄O₉, BaSc₂O₄...oxides. [0046] The **electron** source of the...temperature of a ZrO/W
Schottky electron source...invention, the total **emission** current is small...

Full text available at patent office. For more in-depth searching go to  LexisNexis
 similar results


- ☐ 2. Nitride semiconductor device comprising bonded substrate and fabrication method of the same
Nagahama, Shinichi / Sano, Masahiko / Yanamoto, Tomoya / Sakamoto, Keiji /
Yamamoto, Masashi / Morita, Daisuke (Nichia Corporation), UNITED STATES PATENT AND
TRADEMARK OFFICE GRANTED PATENT, May 2008
 patno:US7378334

A substrate 1 for growing nitride semiconductor has a first and second face and has a thermal
 expansion coefficient that is larger than that of the nitride semiconductor. At least n-type nitride
 semiconductor layers 3 to 5, an active layer 6 and p-type ...

Full text available at patent office. For more in-depth searching go to  LexisNexis
 similar results


- ☐ 3. Apparatus for asymmetric dual-screen digital radiography
Yorkston, John / Yip, Kwok-Leung / Wojcik, Timothy J. (Eastman Kodak Company),
 UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jan 2008
 patno:US20080011960

...CaWO₄:Tb, BaFBr:Eu, BaFCl:Eu, BaSO₄:Eu, BaSrSO₄, BaPbSO₄, **BaAl₁₂O₁₉**:Mn,
 BaMgAl₁₀O₁₇:Eu, Zn₂SiO₄:Mn, (Zn,Cd)S:Ag, LaOBr, LaOBr...thin film transistor array structures
 include (a) n-i-p, (b) **Schottky** barrier, and (c) metal-insulator-semiconductor (MIS). Although...

Full text available at patent office. For more in-depth searching go to  LexisNexis
 similar results

- ☐ 4. Nitride semiconductor device comprising bonded substrate and fabrication method of the same
Nagahama, Shinichi / Sano, Masahiko / Yanamoto, Tomoya / Sakamoto, Keiji /
Yamamoto, Masashi / Morita, Daisuke (Nichia Corporation), UNITED STATES PATENT AND
TRADEMARK OFFICE GRANTED PATENT, Sep 2006
 patno:US7105857

A substrate 1 for growing nitride semiconductor has a first and second face and has a thermal
 expansion coefficient that is larger than that of the nitride semiconductor. At least n-type nitride
 semiconductor layers 3 to 5, an active layer 6 and p-type ...

Full text available at patent office. For more in-depth searching go to  LexisNexis
 similar results


- ☐ 5. Nitride semiconductor device comprising bonded substrate and fabrication method of the same
Nagahama, Shinichi / Sano, Masahiko / Yanamoto, Tomoya / Sakamoto, Keiji /
Yamamoto, Masashi / Morita, Daisuke (Nichia Corporation), UNITED STATES PATENT AND
TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jun 2006
 patno:US20060128118

A substrate 1 for growing nitride semiconductor has a first and second face and has a thermal
 expansion coefficient that is larger than that of the nitride semiconductor. At least n-type nitride
 semiconductor layers 3 to 5, an active layer 6 and p-type ...

Full text available at patent office. For more in-depth searching go to  LexisNexis
 similar results

- ☐ 6. Nitride semiconductor device comprising bonded substrate and fabrication method of the same
Nagahama, Shinichi / Sano, Masahiko / Yanamoto, Tomoya / Sakamoto, Keiji /
Yamamoto, Masashi / Morita, Daisuke (Nichia Corporation), UNITED STATES PATENT AND
TRADEMARK OFFICE PRE-GRANT PUBLICATION, Apr 2004
 patno:US20040072383

A substrate 1 for growing nitride semiconductor has a first and second face and has a thermal
 expansion coefficient that is larger than that of the nitride semiconductor. At least n-type nitride
 semiconductor layers 3 to 5, an active layer 6 and p-type ...

Full text available at patent office. For more in-depth searching go to  LexisNexis

1. Electron source

Applicants

Terui, Yoshinori / Nonogaki, Ryoza (Denki Kagaku Kogyo Kabushiki Kaisha),
UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Apr 2006
patno:US20060076866

...OF SYMBOLS) [0028] 1: **Needle** [0029] 2: Supply source...present invention is an **electron source** (BaO/W emitter...formed on a **needle of tungsten or molybdenum single crystal** having <100> orientation...consisting of BaAl2O4, **BaAl12O19**, Ba3Sc4O9, BaSc2O4, BaTiO3...as known as an oxide **cathode**, an oxide containing...temperature. Therefore, a **cathode** having barium oxide as...voltage is applied to the **cathode** by heating in vacuum...

Full text available at patent office. For more in-depth searching go to  LexisNexis
[similar results](#)

☐ 2. Investigation of Reactions between Barium Compounds and Tungsten in a Simulated Reservoir Hollow Cathode Environment

Schoenbeck, Laura , Mar 2005

...Barium Compounds and **Tungsten** 13 Solid-State Reaction...Analysis 47 Scanning **Electron** Microscopy 47 v CHAPTER...the Pellets in the **Molybdenum** Capsules 72 Formation...84 Surface Area of **Tungsten** in the Capsules 86...Evaporation of Barium from **Cathodes** Impregnated with Barium...**cathode** that produces **electrons** to ionize the xenon...critical component of the **cathode** is the barium 1 source...reducing agent, typically **tungsten**, to form free barium...

[http://hdl.handle.net/1853/6855]

[similar results](#)

☐ 3. Investigation of Reactions between Barium Compounds and Tungsten in a Simulated Reservoir Hollow Cathode Environment

Schoenbeck, Laura , Mar 2005

...between Barium Compounds and **Tungsten** 13 Solid-State Reaction Kinetics...Evaporation Rates from Dispenser **Cathodes** 25 CHAPTER 3 EXPERIMENTAL...Semi-Quantitative Analysis 47 Scanning **Electron** Microscopy 47 v CHAPTER 4...Between the Pellets in the **Molybdenum** Capsules 72 Formation of...Capsules 86 2000 Hour Test **Cathode** 88 Predicted **Cathode** Life Based on Previously...

Full text thesis available via ND LTD (Georgia Tech)

[similar results](#)

☐ 4. Investigation of reactions between barium compounds and tungsten in a simulated reservoir hollow cathode environment

Schoenbeck, Laura. , Jan 2005

...between Barium Compounds and **Tungsten** 13 Solid-State Reaction Kinetics...Evaporation Rates from Dispenser **Cathodes** 25 CHAPTER 3 EXPERIMENTAL...Semi-Quantitative Analysis 47 Scanning **Electron** Microscopy 47 v CHAPTER 4...Between the Pellets in the **Molybdenum** Capsules 72 Formation of...Capsules 86 2000 Hour Test **Cathode** 88 Predicted **Cathode** Life Based on Previously...

Full text thesis available via ND LTD (OCLC)

[similar results](#)

☐ 5. Fixed-pixel display device and cold cathode field electron emission display device

Ikeda, Hiroyuki (Sony Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jul 2008
patno:US7405711

...hole 14. [0164]By the plural **electron**-emitting regions 15 arranged...Each light-emitting region (a **single** pixel or a **single** subpixel...connected to the respective **cathode** electrodes 11 to actuate the **cathode** electrodes 11. [0167]Each...subtraction circuit 52. A **cathode** electrode control circuit...

Full text available at patent office. For more in-depth searching go to  LexisNexis

[similar results](#)






☐ 6. Fixed-pixel display apparatus and cold cathode field electron emission display apparatus






Ikeda, Hiroyuki, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Nov 2006
patno:US20060262046

...hole 14. [0163] By the plural **electron**-emitting regions 15 arranged...Each light-emitting region (a **single** pixel or a **single** subpixel...connected to the respective **cathode** electrodes 11 to actuate the **cathode** electrodes 11. [0166] Each...subtraction circuit 52. A **cathode** electrode control

circuit...

Full text available at patent office. For more in-depth searching go to  LexisNexis®
similar results

7. Electroluminescent material and electroluminescent element
EUROPEAN PATENT APPLICATION, Mar 2007
patno:EP1764401
...color conversion filter). **Electronic** display device include a...light-emission type include a CRT (**cathode** ray tube), a PDP (plasma...325 discloses one using a **single crystal** of anthracene as the light-emission...injection layer and an organic **electron** injection layer, and Jpn...transportation layer and an **electron** transportation layer. The...
Full text available at patent office. For more in-depth searching go to  LexisNexis®
similar results
8. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (Konica Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jan 2008
patno:US7316851
...injected from a anode and an **electron** injected from a **cathode** are recombined, and is different...as long as the number of n-**electron** thereof is $4n+2$ in which n...natural number, and it may be a **single** ring or condensed ring. The...compound having a number of n-**electron** of $4n+2$ in which n is a natural...
Full text available at patent office. For more in-depth searching go to  LexisNexis®
similar results
9. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (KONICA CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jan 2007
patno:US20070020485
...injected from a anode and an **electron** injected from a **cathode** are recombined, and is different...as long as the number of n-**electron** thereof is $4n+2$ in which n...natural number, and it may be a **single** ring or condensed ring. The...compound having a number of n-**electron** of $4n+2$ in which n is a natural...
Full text available at patent office. For more in-depth searching go to  LexisNexis®
similar results
10. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (Konica Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Sep 2007
patno:US7264890
...injected from a anode and an **electron** injected from a **cathode** are recombined, and is different...as long as the number of n-**electron** thereof is $4n+2$ in which n...natural number, and it may be a **single** ring or condensed ring. The...compound having a number of n-**electron** of $4n+2$ in which n is a natural...
Full text available at patent office. For more in-depth searching go to  LexisNexis®
similar results
11. COMPLEX OXYNITRIDE PHOSPHOR, LIGHT-EMITTING DEVICE USING SAME, IMAGE DISPLAY, ILLUMINATING DEVICE, PHOSPHOR-CONTAINING COMPOSITION AND COMPLEX OXYNITRIDE
Shimooka, Satoshi / Ueda, Kyota / Mikami, Masayoshi / Kijima, Naoto / Imura, Hiroyuki / Horibe, Kentaro (Mitsubishi Chemical Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Feb 2009
patno:US20090033201
...20-1: back electrode[0125]20-2: liquid **crystal** layer[0126]20-3: front electrode [0127...Oxynitride Phosphor])([1-1. Composition and **Crystal** Structure of Multinary Oxynitride Phosphor...and can be almost identified as a **single** phase (hereinafter, the **crystal** phase is referred to as BSON **crystal**...be decided also by a measurement of **electron** spin resonance (ESR). [0144]In the...
Full text available at patent office. For more in-depth searching go to  LexisNexis®
similar results

12. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (KONICA CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, May 2004
 patno:US20040096696
 ...injected from a anode and an **electron** injected from a **cathode** are recombined, and is different...natural number, and it may be a **single** ring or condensed ring. The...usually constituted by a **single** or plural layers which are...Anode/Light emission layer/**Electron** injection layer/**Cathode**...layer/Light emission layer/**Electron** injection layer/**Cathode**...
Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
[similar results](#)
13. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (KONICA CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Apr 2004
 patno:US20040072019
 ...injected from a anode and an **electron** injected from a **cathode** are recombined, and is different...natural number, and it may be a **single** ring or condensed ring. The...usually constituted by a **single** or plural layers which are...Anode/Light emission layer/**Electron** injection layer/**Cathode**...layer/Light emission layer/**Electron** injection layer/**Cathode**...
Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
[similar results](#)
14. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (KONICA CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Apr 2004
 patno:US20040062951
 ...injected from a anode and an **electron** injected from a **cathode** are recombined, and is different...natural number, and it may be a **single** ring or condensed ring. The...usually constituted by a **single** or plural layers which are...Anode/Light emission layer/**Electron** injection layer/**Cathode**...layer/Light emission layer/**Electron** injection layer/**Cathode**...
Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
[similar results](#)
15. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (KONICA CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Mar 2004
 patno:US20040058195
 ...injected from a anode and an **electron** injected from a **cathode** are recombined, and is different...natural number, and it may be a **single** ring or condensed ring. The...usually constituted by a **single** or plural layers which are...Anode/Light emission layer/**Electron** injection layer/**Cathode**...layer/Light emission layer/**Electron** injection layer/**Cathode**...
Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
[similar results](#)
16. Electroluminescent material, electroluminescent element and color conversion filter
Kita, Hiroshi / Suzuri, Yoshiyuki / Yamada, Taketoshi / Nakamura, Kazuaki / Ueda, Noriko / Okubo, Yasushi (Konica Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Dec 2003
 patno:US6656608
 ...injected from a anode and an **electron** injected from a **cathode** are recombined, and is different...natural number, and it may be a **single** ring or condensed ring. The...usually constituted by a **single** or plural layers which are...Anode/Light emission layer/**Electron** injection layer/**Cathode**...layer/ Light emission layer/**Electron** injection layer/**Cathode**...
Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
[similar results](#)
17. Organic electro-luminescent element and material of organic electro-luminescent element
Ueda, Noriko / Matsuura, Mitsunori / Kita, Hiroshi (Konica Corporation), UNITED STATES

PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 2004

patno:US6723455

...through A6 may be a **single** ring or condensed ring...injection layer or an **electron** injection layer is...Light emission layer/**Cathode** (II) Anode/Positive...Light emission layer/**Cathode** (III) Anode/Light emission...may be composed of **single** layer structure comprising...disparate compositions. The **electron** injection layer which...**electrons** injected to the **cathode** to the light emiss

Full text available at patent office. For more in-depth searching go to  LexisNexis
similar results

18. Preparation and photoluminescence properties of Mn^{2+} -activated $M_2Si_5N_8$ (M=Ca, Sr, Ba) phosphors




Duan, C.J. / Otten, W.M. / Delsing, A.C.A. / Hintzen, H.T. , *Journal of Solid State Chemistry*, 181 (4), p.751-757, Apr 2008

...Zn2SiO4:Mn2+(Green)[10]and **BaAl12O19**:Mn2+(Green)[11], and **cathode**-ray tubes (CRTs) phosphors...red emission on a strong **crystal**-field[23]. As far as we...then transferred into **molybdenum** crucibles. All processes...samples are shown to be **single** phase and the X-ray diffraction...excitation levels. The **electron** from the ground state...Mn2+. The excited free **electron** then relaxes to the4T1...environment for (and thus **crystal** field around) the Ca ion...there is present only a **single** narrow emission band in...

Published journal article available from  ScienceDirect
similar results

19. Organic electro-luminescent element and material of organic electro-luminescent element
Ueda, Noriko / Matsuura, Mitsunori / Kita, Hiroshi, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jul 2002
patno:US20020094452

...by A1 through A6 may be a **single** ring or condensed ring. Preferable...hole injection layer or an **electron** injection layer is provided...Anode/Light emission layer/**Cathode** [0066] (II) Anode/Positive...layer/Light emission layer/**Cathode** [0067] (III) Anode/Light emission...**Electron** transporting layer/**Cathode** [0068] (VI) Anode/Positive...

Full text available at patent office. For more in-depth searching go to  LexisNexis
similar results

20. 封皮.doc [PDF-498K]

Feb 2007

...Flat Display Industry for Consumer **Electronics** applications Kees van der Klauw Philips Consumer **Electronics**,Netherlands 12:00-13:30 Lunch Break...Taiwan, China 14:10-14:30 1.3 Liquid **Crystal** Photo-Aligning by Azo-Dyes Invited...Viewing Angle Controllable LCD with a **Single** LC Layer Woo-Jung Shin Inha University...Invited Zexiang Chen University of **Electronic** Science and Technology of China, China...

[http://www.sid.org/conf/asid2007/program.pdf]

similar results

21. PLASMA DISPLAY PANEL AND METHOD FOR MANUFACTURING THE SAME
CHOI, Sung Chun, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Sep 2008
patno:US20080231163

...nickel (Ni), chromium (Cr), and **molybdenum** (Mo). On the other hand, the rare...increase the emission of secondary **electrons**. [0046]The PDP further includes a...nickel (Ni), chromium (Cr), and **molybdenum** (Mo). On the other hand, the rare...and a dielectric having a secondary **electron** emission coefficient higher than that...selected from the group consisting of **BaAl12O19**:Mn, (Ba, Sr, Mg)OaAl2O3:Mn ("a" is...

Full text available at patent office. For more in-depth searching go to  LexisNexis
similar results

22. Cold emission electrode method of manufacturing the same and display device using the same
Nakamura, Osamu / Suzuki, Shigemi / Mori, Yuichi / Hiramata, Hironori (Casio Computer Co., Ltd. ; Stanley Electric Co., Ltd.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Aug 2001
patno:US6281626

...and H is hydrogen) is applied as an **electron** emitting material for a cold emission...material represented by RH_{2+x} can have a **crystal** structure derived from a substance...semiconductor properties and are made of a **single** element or element mixture which...Examples of such an element are Mo (**molybdenum**) and Al (aluminum) in addition to...films 4 and 7 serving as the cold **electron** emitting layers contain an electrode...formed on a substrate 16, and an **electron** emitting film 18 containing a hydride...

Full text available at patent office. For more in-depth searching go to  LexisNexis